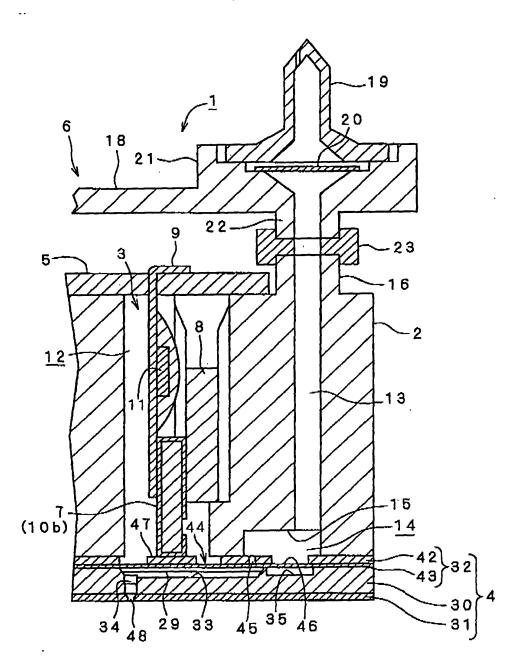
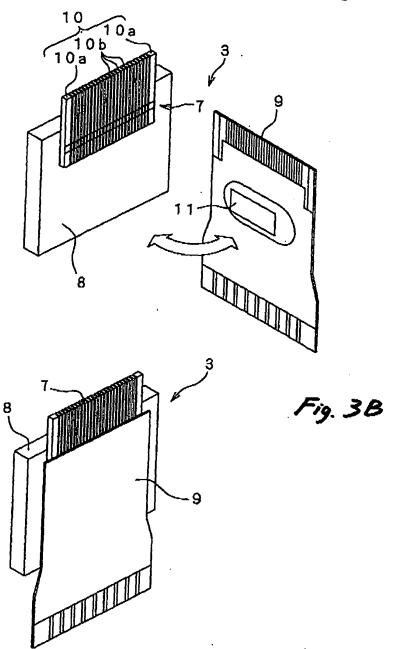


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic
1 of 12



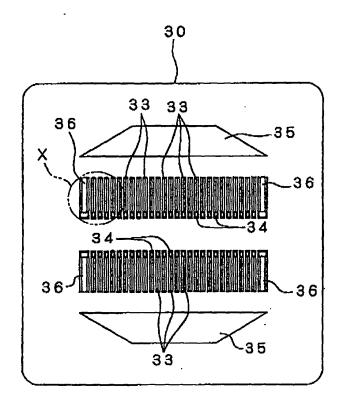
Fujio AKAHANE, et al. Q77091 FORGING PUNCH, METHOD OF MANUFACTURING LIQUID EJECTION HEAD... Date Filed: August 21, 2003 Darryl Mexic (202) 293-7060 2 of 12

Fig. 3A

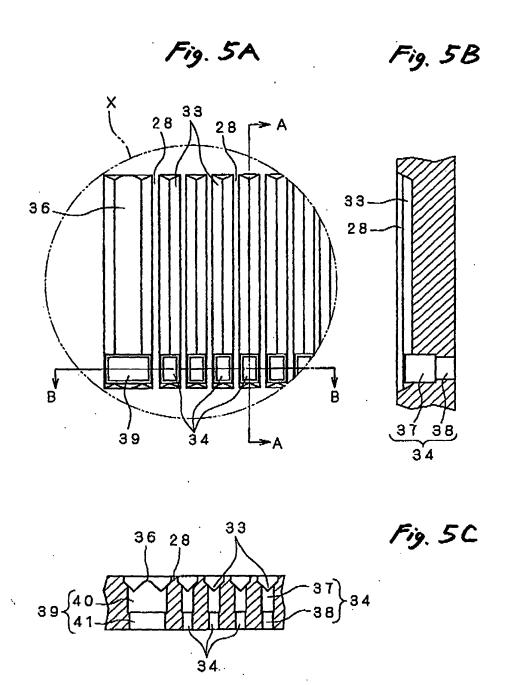


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
3 of 12

Fig. 4

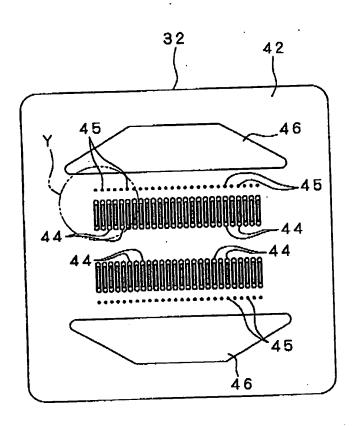


Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
4 of 12



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
5 of 12

Fig. 6



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
6 of 12

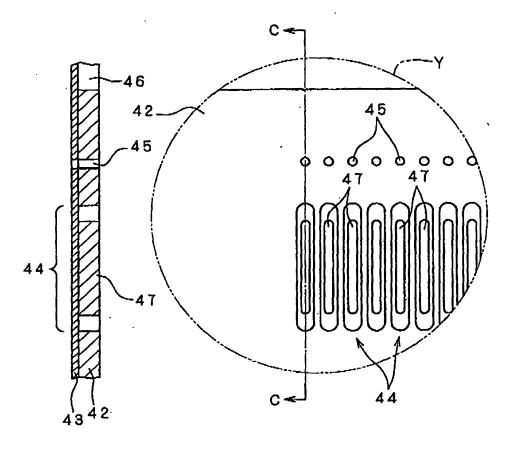
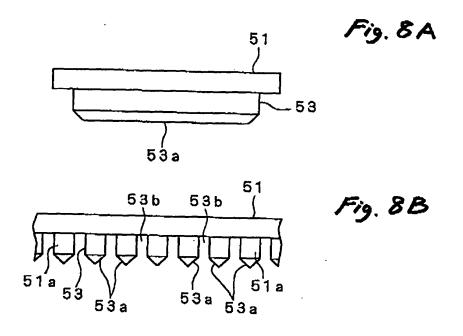
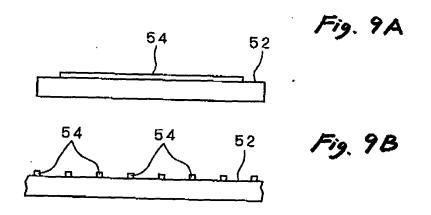


Fig. 7B

Fig. 7A

Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
7 of 12





Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
8 of 12

53b 53b 51 51 55

54

Fig. 10A

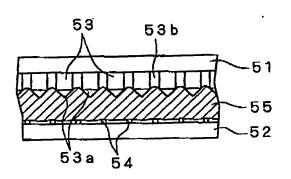


Fig. 10B

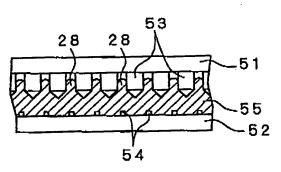
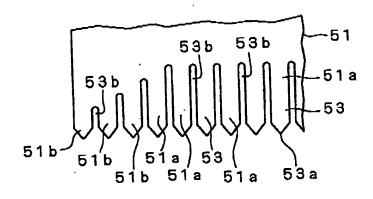


Fig. 10C

## Fig. 11A



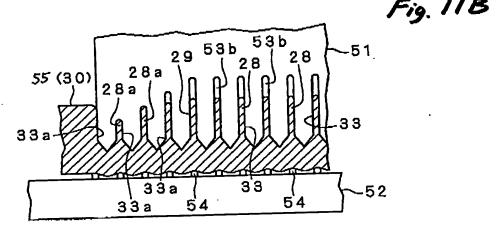
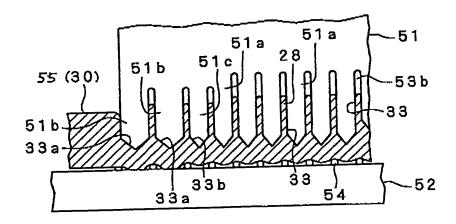
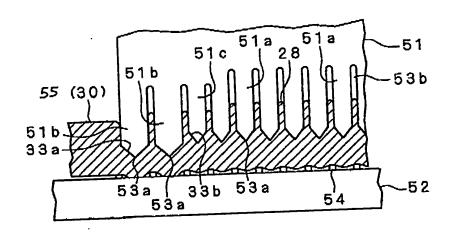
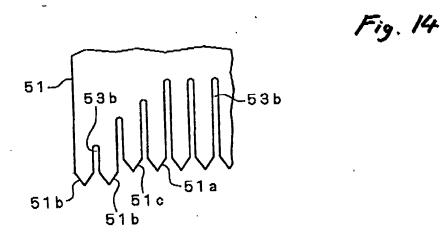


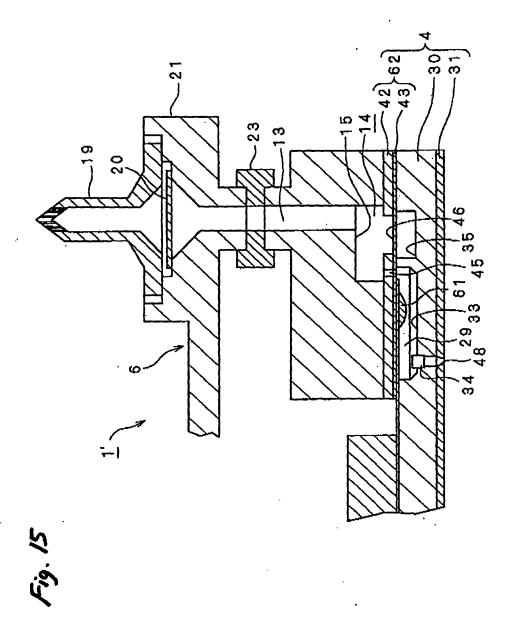
Fig. 12



Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
10 of 12







Fujio AKAHANE, et al. Q77091
FORGING PUNCH, METHOD OF
MANUFACTURING LIQUID EJECTION HEAD...
Date Filed: August 21, 2003
Darryl Mexic (202) 293-7060
12 of 12